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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/186,342

DATE: 11/12/1998
TIME: 17:05:18

Input Set: I186342.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

*new format***ENTERED**

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1  <110> APPLICANT: Conklin, Darrell C.
2      Blumberg, Hal
3      Deisher, Theresa A.
4  <120> TITLE OF INVENTION: A HUMAN 2-19 PROTEIN HOMOLOGUE, Z219C
5  <130> FILE REFERENCE: 97-64
6  <140> CURRENT APPLICATION NUMBER: US/09/186,342
7  <141> CURRENT FILING DATE: 1998-11-04
8  <150> EARLIER APPLICATION NUMBER: US 60/066,157
9  <151> EARLIER FILING DATE: 1997-11-19
10 <160> NUMBER OF SEQ ID NOS: 19
11 <170> SOFTWARE: FastSEQ for Windows Version 3.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 1221
14 <212> TYPE: DNA
15 <213> ORGANISM: Homo sapiens
16 <220> FEATURE:
17 <221> NAME/KEY: CDS
18 <222> LOCATION: (222)...(889)
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20      cgcccgggca ggttgcattc agaggagggc cgtctgtgag ccactacccc tccagcaact      60
21      gggaggtggg actgtcagaa gctggcccag ggtgggtggc agctgggtca gggacctacg      120
22      gcacctgctg gaccacctcg ccttctccat cgaagcaggg aagtgggagc ctcgagccct      180
23      cgggtggaag ctgaccccaa gccacccttc acctggacag g atg aga gtg tca ggt      236
24                                     Met Arg Val Ser Gly
25                                     1          5
26      gtg ctt cgc ctc ctg gcc ctc atc ttt gcc ata gtc acg aca tgg atg      284
27      Val Leu Arg Leu Leu Ala Leu Ile Phe Ala Ile Val Thr Thr Trp Met
28                                     10          15          20
29      ttt att cga agc tac atg agc ttc agc atg aaa acc atc cgt ctg cca      332
30      Phe Ile Arg Ser Tyr Met Ser Phe Ser Met Lys Thr Ile Arg Leu Pro
31                                     25          30          35
32      cgc tgg ctg gcc tcg ccc acc aag gag atc cag gtt aaa aag tac aag      380
33      Arg Trp Leu Ala Ser Pro Thr Lys Glu Ile Gln Val Lys Lys Tyr Lys
34                                     40          45          50
35      tgt ggc ctc atc aag ccc tgc cca gcc aac tac ttt gcg ttt aaa atc      428
36      Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr Phe Ala Phe Lys Ile
37                                     55          60          65
38      tgc agt ggg gcc gcc aac gtc gtg ggc cct act atg tgc ttt gaa gac      476
39      Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr Met Cys Phe Glu Asp
40                                     70          75          80          85
41      cgc atg atc atg agt cct gtg aaa aac aat gtg ggc aga ggc cta aac      524
42      Arg Met Ile Met Ser Pro Val Lys Asn Asn Val Gly Arg Gly Leu Asn
43                                     90          95          100
44      atc gcc ctg gtg aat gga acc acg gga gct gtg ctg gga cag aag gca      572

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45   Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val Leu Gly Gln Lys Ala
46               105                      110                      115
47   ttt gac atg tac tct gga gat gtt atg cac cta gtg aaa ttc ctt aaa      620
48   Phe Asp Met Tyr Ser Gly Asp Val Met His Leu Val Lys Phe Leu Lys
49               120                      125                      130
50   gaa att ccg ggg ggt gca ctg gtg ctg gtg gcc tcc tac gac gat cca      668
51   Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala Ser Tyr Asp Asp Pro
52               135                      140                      145
53   ggg acc aaa atg aac gat gaa agc agg aaa ctc ttc tct gac ttg ggg      716
54   Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu Phe Ser Asp Leu Gly
55               150                      155                      160                      165
56   agt tcc tac gca aaa caa ctg ggc ttc cgg gac agc tgg gtc ttc ata      764
57   Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp Ser Trp Val Phe Ile
58               170                      175                      180
59   gga gcc aaa gac ctc agg ggt aaa agc ccc ttt gag cag ttc tta aag      812
60   Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe Glu Gln Phe Leu Lys
61               185                      190                      195
62   aac agc cca gac aca aac aaa tac gag gga tgg cca gag ctg ctg gag      860
63   Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp Pro Glu Leu Leu Glu
64               200                      205                      210
65   atg gag ggc tgc atg ccc ccg aag cca tt ttaggggtggc tgtggctctt      909
66   Met Glu Gly Cys Met Pro Pro Lys Pro
67               215                      220
68   cctcagccag gggcctgaag aagctcctgc ctgacttagg agtcagagcc cggcaggggc      969
69   tgaggaggag gagcaggggg tgctgcgtgg aagggtgctgc aggtccttgc acgctgtgtc      1029
70   gcgcctctcc tcctcggaac cagaacctc ccacagcaca tcctaccgg aagaccagcc      1089
71   tcagaggggc cttctggaac cagctgtctg tggagagaat ggggtgcttt cgtcagggac      1149
72   tgctgacggc tggctctgag gaaggacaaa ctgccagac ttgagcccaa ttaaatttta      1209
73   tttttgctgg ta      1221
74   <210> SEQ ID NO 2
75   <211> LENGTH: 223
76   <212> TYPE: PRT
77   <213> ORGANISM: Homo sapiens
78   <400> SEQUENCE: 2
79   Met Arg Val Ser Gly Val Leu Arg Leu Leu Ala Leu Ile Phe Ala Ile
80       1             5             10             15
81   Val Thr Thr Trp Met Phe Ile Arg Ser Tyr Met Ser Phe Ser Met Lys
82               20             25             30
83   Thr Ile Arg Leu Pro Arg Trp Leu Ala Ser Pro Thr Lys Glu Ile Gln
84               35             40             45
85   Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
86               50             55             60
87   Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
88               65             70             75             80
89   Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
90               85             90             95
91   Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
92               100            105            110
93   Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
94               115            120            125

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95      Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
96      130                      135                      140
97      Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
98      145                      150                      155                      160
99      Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp
100     165                      170                      175
101     Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe
102     180                      185                      190
103     Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp
104     195                      200                      205
105     Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro Lys Pro Phe
106     210                      215                      220
107     <210> SEQ ID NO 3
108     <211> LENGTH: 3
109     <212> TYPE: PRT
110     <213> ORGANISM: Artificial Sequence
111     <220> FEATURE:
112     <223> OTHER INFORMATION: Z219c polypeptide Motif 1
113     <400> SEQUENCE: 3
114         Phe Asp Met
115         1
116     <210> SEQ ID NO 4
117     <211> LENGTH: 3
118     <212> TYPE: PRT
119     <213> ORGANISM: Artificial Sequence
120     <220> FEATURE:
121     <223> OTHER INFORMATION: Z219c polypeptide Motif 2
122     <400> SEQUENCE: 4
123         Tyr Asp Asp
124         1
125     <210> SEQ ID NO 5
126     <211> LENGTH: 3
127     <212> TYPE: PRT
128     <213> ORGANISM: Artificial Sequence
129     <220> FEATURE:
130     <223> OTHER INFORMATION: Z219c polypeptide Motif 3
131     <400> SEQUENCE: 5
132         Leu Gly Ser
133         1
134     <210> SEQ ID NO 6
135     <211> LENGTH: 3
136     <212> TYPE: PRT
137     <213> ORGANISM: Artificial Sequence
138     <220> FEATURE:
139     <223> OTHER INFORMATION: Z219c polypeptide Motif 4
140     <400> SEQUENCE: 6
141         Trp Val Phe
142         1
143     <210> SEQ ID NO 7
144     <211> LENGTH: 3

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145 <212> TYPE: PRT
146 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Z219c polypeptide Motif 5
149 <400> SEQUENCE: 7
150     Glu Gly Cys
151     1
152 <210> SEQ ID NO 8
153 <211> LENGTH: 669
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Degenerate polynucleotide sequence of z219c
158 <220> FEATURE:
159 <221> NAME/KEY: variation
160 <222> LOCATION: (0)...(0)
161 <223> OTHER INFORMATION: N is any nucleotide
162 <400> SEQUENCE: 8
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W--> 164     atgttyathm gnwsntayat gwsnttywsn atgaaracna thmgnytncc nmngntggytn      120
W--> 165     gcnwsnccna cnaargarat hcargtnaar aartayaart gyggnytnat haarcntgy      180
W--> 166     ccngcnaayt ayttygcntt yaarathtgy wsngngngcng cnaaygtngt nggnccnacn      240
W--> 167     atgtgyttyg argaymgnat gathatgwsn ccngtnaara ayaaygtngg nmngngnytn      300
W--> 168     aayathgcny tngtnaaygg nacnacnggn gcngtnytn gncaraargc nttygayatg      360
W--> 169     taywsngngng aygtnatgca yytngtnaar ttyytnaarg arathccngg nggngcnytn      420
W--> 170     gtnytngtng cnwsntayga ygayccnggn acnaaratga aygaygarws nmgnaarytn      480
W--> 171     ttywsngayy tnggnwsnws ntaygcnaar carytnggnt tymngngayws ntgggtntty      540
W--> 172     athggngcna argayytnmg nggnaarwsn ccnttygarc arttyytnaa raaywsnccn      600
W--> 173     gayacnaaya artaygargg ntggccngar ytnytngara tggarggntg yatgccnccn      660
W--> 174     aarccntty
175 <210> SEQ ID NO 9
176 <211> LENGTH: 20
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Oligonucleotide primer ZC694
181 <400> SEQUENCE: 9
182     taatacgact cactataggg      20
183 <210> SEQ ID NO 10
184 <211> LENGTH: 19
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Oligonucleotide primer ZC695
189 <400> SEQUENCE: 10
190     gatttaggtg acactatag      19
191 <210> SEQ ID NO 11
192 <211> LENGTH: 25
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence

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195 <220> FEATURE:
196 <223> OTHER INFORMATION: Oligonucleotide primer ZC13978
197 <400> SEQUENCE: 11
198 ggcggcccca ctgcagattt taaac 25
199 <210> SEQ ID NO 12
200 <211> LENGTH: 23
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Oligonucleotide primer ZC15288
205 <400> SEQUENCE: 12
206 ttggctgggc agggcttgat gag 23
207 <210> SEQ ID NO 13
208 <211> LENGTH: 21
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Oligonucleotide primer ZC14067
213 <400> SEQUENCE: 13
214 tggccatccc tcgtatttgt t 21
215 <210> SEQ ID NO 14
216 <211> LENGTH: 21
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Oligonucleotide primer ZC14068
221 <400> SEQUENCE: 14
222 ccctgcccag ccaactactt t 21
223 <210> SEQ ID NO 15
224 <211> LENGTH: 21
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Oligonucleotide primer ZC14869
229 <400> SEQUENCE: 15
230 agcccagaca caaacaata c 21
231 <210> SEQ ID NO 16
232 <211> LENGTH: 21
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Oligonucleotide primer ZC14868
237 <400> SEQUENCE: 16
238 tgccgggctc tgactcctaa g 21
239 <210> SEQ ID NO 17
240 <211> LENGTH: 115
241 <212> TYPE: PRT
242 <213> ORGANISM: Mus musculus
243 <400> SEQUENCE: 17
244 Thr Gly Gln Val Met Lys Lys Asp Ser Phe Asp Met Tyr Ser Gly Asp

VERIFICATION SUMMARY
PATENT APPLICATION US/09/186,342DATE: 11/12/1998
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Line	?	Error/Warning	Original Text
163	W	"N" or "Xaa" used: Feature required	atgmgngtnw snggngtnyt nmgnynytn gcnynat
164	W	"N" or "Xaa" used: Feature required	atgttyathm gnwsntayat gwsnttywsn atgaarac
165	W	"N" or "Xaa" used: Feature required	gcwnsnccna cnaargarat hcargtnaar aartayaa
166	W	"N" or "Xaa" used: Feature required	ccngcnaayt ayttygcntt yaarathtgy wsnggngc
167	W	"N" or "Xaa" used: Feature required	atgtgyttyg argaymgnat gathatgwsn ccngtnaa
168	W	"N" or "Xaa" used: Feature required	aayathgcny tngtnaaygg nacnacnggn gcngtnyt
169	W	"N" or "Xaa" used: Feature required	taywsnggng aygtnatgca yytngtnaar ttyytnaa
170	W	"N" or "Xaa" used: Feature required	gtnytngtn gcnwsntayga ygayccnggn acnaarat
171	W	"N" or "Xaa" used: Feature required	ttywsngayy tnggnwsnws ntaygcnaar carytngg
172	W	"N" or "Xaa" used: Feature required	athggngcna argayytnmg nggnaarwsn ccnttyga
173	W	"N" or "Xaa" used: Feature required	gayacnaaya artaygargg ntggccngar ytnytnga
174	W	"N" or "Xaa" used: Feature required	aarccntty